Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:
2018 Long Island, NY DMC 4-Band 8 Bit Imagery

1.2. Summary description of the data:
This data set consists of a set of aerial triangulated 4-band orthophotos (.tif format) with a .5 meter resolution of the Long Island South Shore that includes the areas of Great South Bay, Moriches Bay, and Shinnecock Bay. The imagery was flown over three days, May 9, 11 and 24, 2018. The digital imagery was acquired by Richard Crouse & Associates(RCA) using an Intergraph DMC2e 230-23522 digital mapping camera. The resulting photographic images were aerotriangulated by Leading Edge Geomatics and reviewed for quality by Dewberry. The imagery was collected under environmental conditions favorable to mapping shallow submerged habitats, in particular seagrass. Missions were timed to coincide with low tide, sun angles below 30 degrees, calm sea state, and low-turbidity. The missions were also scheduled to take advantage of adequate seagrass biomass and minimal brown tide events. Close coordination with local observers on the ground was maintained to ensure good water clarity during data acquisition.

1.3. Is this a one-time data collection, or an ongoing series of measurements?
One-time data collection

1.4. Actual or planned temporal coverage of the data:
2018-05-09, 2018-05-11, 2018-05-24

1.5. Actual or planned geographic coverage of the data:
W: -73.755, E: -72.395, N: 40.919, S: 40.555

1.6. Type(s) of data:
(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
Image (digital)

1.7. Data collection method(s):
(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys,

enforcement activities, numerical model, etc.)

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:
NOAA Office for Coastal Management (NOAA/OCM)

2.2. Title:
Metadata Contact

2.3. Affiliation or facility:
NOAA Office for Coastal Management (NOAA/OCM)

2.4. E-mail address:
coastal.info@noaa.gov

2.5. Phone number:
(843) 740-1202

3. Responsible Party for Data Management
Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:

3.2. Title:
Data Steward

4. Resources
Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):

5. Data Lineage and Quality
NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible

(describe or provide URL of description):

Process Steps:

- 2018-05-01 00:00:00 - Upon receiving the Go-No Go approval from project team to collect imagery, Richard Crouse and Associates collected aerial multi-spectral imagery over the South Shore Estuary Reserve study area at 8, 084 feet above ground level, resulting in a 15cm pixel. The image frames were collected with 60% overlap and 30% sidelap to produce stereo imagery for photogrammetric processing and to help minimize glint issues caused by camera angle. A total of 1208 frames were collected along 18 flight lines generally oriented WSW to ENE.
- 2018-07-23 00:00:00 - Dewberry used previously surveyed Ground Control Points (GCPs) for the mapping effort. 20 checkpoints were used to test the horizontal positional accuracy of the orthophotography. The horizontal positional accuracy specification at the 95% confidence level is 0.734 m. The tested horizontal positional accuracy at the 95% confidence level for the orthophotography passed at 0.241 m. The points are well-defined features, such as sharp corners, path crossings, fence posts, parking lot striping and intersections of driveways with roads. A total of 20 control points were utilized throughout the project area and documented on Photo Control Point Sheets. Each sheet has a written description of the point location, point number, and the coordinates in UTM 18 (northing and easting).
- 2018-07-23 00:00:00 - An aerotriangulation solution was computed by Leading Edge Geomatics using Inpho software issued by Trimble, Inc., utilizing camera calibration reports, digital imagery, and surveyed ground control points. The adjusted control points, camera orientation parameters and pre-existing USGS Digital Elevation Models (DEMs) were then used for digital orthophotography generation in Inpho. The individual georectified orthophotos were then used to create area wide mosaic images in NRGB color band combinations, which were reviewed for quality by Dewberry. A final step was to clip the area-wide mosaic into individual tiles corresponding to U.S. Geological Survey 7.5 minute quarter quad boundaries and name each tile using it's quad name. A slight overlap for each tile ensured comprehensive coverage.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?

No

6.1.1. If metadata are non-existent or non-compliant, please explain:

Missing/invalid information:
- 1.7. Data collection method(s)
- 3.1. Responsible Party for Data Management
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data management
- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
- 7.1.1. If data are not available or has limitations, has a Waiver been filed?
- 7.1.2. If there are limitations to data access, describe how data are protected
- 7.3. Data access methods or services offered
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.3. Approximate delay between data collection and submission to an archive facility
- 8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

6.2. Name of organization or facility providing metadata hosting:

NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:

https://www.fisheries.noaa.gov/inport/item/54912

6.4. Process for producing and maintaining metadata

(describe or provide URL of description):

Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:
NOAA Office for Coastal Management (NOAA/OCM)

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:
https://coast.noaa.gov/dataviewer
https://coast.noaa.gov/dataviewer/#/imagery/search/where:ID=8631
https://coast.noaa.gov/htdata/raster3/imagery/LongIslandNY_2018_8631

7.3. Data access methods or services offered:

7.4. Approximate delay between data collection and dissemination:

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:
(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):
Office for Coastal Management - Charleston, SC

8.3. Approximate delay between data collection and submission to an archive facility:

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?
Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.